EVEN SEMESTER EXAMINATION, MAY- 2026

Course Name:-M.C.A **Semester:-II**

Paper Name:-DATABASE MANAGEMENT SYSTEM **Paper Code:-**MCA-024

Time - 3Hrs + 20 minutes per hour extra time for V.I. & examinees with writer. **Max Marks-75**

समय– 3 घण्टे+ 20 मिनटप्रति घंटेअतिरिक्त–दृष्टिबाधितएवंसहलेखकपरीक्षार्थियों के लिए। अधिकतम अंक–75

Instructions:

- The question paper consists of three sections namely A, B, C. All sections are compulsory.
- Section A- Each question carries**01**marks. All questions are compulsory.
- Section B- Answer any **4 out of 6** given questions. Each question carries **07 marks**.
- SectionC- Answer any **2 out of 3** given questions. Each question carries **16 marks**.

निर्देश:

- प्रश्न पत्र मेंतीन खण्ड अ, ब, व स हैं।सभी खण्डअनिवार्यहैं।
- खण्ड–अमेंप्रत्येकप्रश्न**एक**अंककाहै।सभीप्रश्नअनिवार्यहैं।
- खण्ड–बमें**छः**प्रश्नोंमेंसेकिन्हीं**चार**प्रश्नों के उत्तरदें।प्रत्येकप्रश्न07अंककाहै।
- खण्ड–समें**तीन**प्रश्नोंमेंसेकिन्हीं**दो**प्रश्नों के दें।प्रत्येकप्रश्न16अंककाहै।

Section – A (खण्ड–अ)

Objective Questions(वस्तुनिष्ठप्रश्न)

1. All questions are compulsory. **1×15=15**

सभीप्रश्नअनिवार्यहैं।

a)Objective Questions.

बहुविकल्पीय प्रश्न।

1. The user IDs can be added or removed using which of the following fixed roles?
   a) db_sysadmin
   b) db_accessadmin
   c) db_securityadmin
   d) db_setupadmin
2. Which command is used to remove a relation from an SQL?
   a) Drop table
   b) Delete
   c) Purge
   d) Remove
3. The process of verifying the identity of a user.8. What is information about data called?
   a) Hyper data
   b) Tera data
   c) Meta data
   d) Relations
4. Which of the following is a component of the DBMS?
   a) Data
   b) Data Languages
   c) Data Manager
   d) All of the above
5. Which of the following is a function of the DBMS?
   a) Storing data
   b) Providing multi-users access control
   c) Data Integrity
   d) All of the above

b)True or False
सत्य अथवाअसत्य बताइए।

1. Support ACID Property is not a feature of DBMS?
   a) True
   b) False
2. IBM DB2 is not an example of DBMS?
   a) True
   b) False
3. Decentralized is not a type of database?
   a) True
   b) False
4. Organized collection of data that cannot be updated is a database?
   a) True
   b) False
5. Database Management Service is the full form of DBMS?
   a) True
   b) False

c)Fill In The Blanks.
रिक्तस्थानोंकीपूर्तीकीजिये।

1._____ is a hardware component that is most important for the operation of a database management system

2.The DBMS acts as an interface between _____ and _____ of an enterprise-class system.

3._____ is a set of one or more attributes taken collectively to uniquely identify a record.

4.Procedural language is _____

5.The top level of the hierarchy consists of _____ each of which can contain _____.

Section – B (खण्ड–ब)
Short Answer Questions (लघुउत्तरीय प्रश्न)

2. Answer any four of the following questions. **7×4=28**
निम्नलिखितमेंसेकिन्हींचारप्रश्नों के उत्तरदें।

1. Explain the Entity-Relationship (ER) model. Draw and explain ER diagrams with examples.
2. What is Transaction Management? Explain ACID properties with examples.
3. What is SQL? Explain different types of SQL commands (DDL, DML, DCL, and TCL) with examples.
4. Explain Distributed Database Systems. Discuss advantages, disadvantages, and types.
5. Explain Database Security. Discuss different security mechanisms used in DBMS.
6. Explain different types of keys in DBMS (Primary Key, Foreign Key, Candidate Key, and Super Key).

Section – C (खण्ड–स)
Descriptive Questions(विवरणात्मकप्रश्न)

3. Answer any two of the following question. **16×2=32**
निम्नलिखितमेंसेकिन्हींदोप्रश्नों के उत्तरदें।

1.Describe the three-level architecture of DBMS (Internal, Conceptual, and External) with a neat diagram.

2.What is Normalization? Explain 1NF, 2NF, and 3NF with suitable examples.

3.Explain the concept of DBMS. Discuss its advantages and disadvantages over file-based systems.